

Claims:

1. An abrasive article suitable for the deposition and mechanical polishing of a conductive material, the article comprising:

A polishing layer having a textured surface comprising a binder and a second surface opposite the textured surface, the polishing layer further comprising a first channel extending therethrough;

A backing having a first backing surface and a second backing surface, the first backing surface associated with the second surface of the polishing layer, the backing comprising a second channel coextensive with the first channel and extending through the backing from the first backing surface to the second backing surface; and

The first channel and the second channel being dimensioned with respect to one another such that the textured surface of the polishing layer is outside of a line of sight.

2. The abrasive article of claim 1, wherein the textured surface comprises a plurality of abrasive composites.

3. The abrasive article of claim 2, wherein the abrasive composites are precisely shaped abrasive composites.

4. The abrasive article of claim 1 wherein the first channel and the second channel are dimensioned with respect to one another such that the textured surface of the polishing layer is outside of a line of sight by at least about 0.2 mm.

5. The abrasive article of claim 1 wherein the first surface of the textured surface further comprises abrasive particles fixed within the binder.

6. The abrasive article of claim 1 wherein the polishing layer comprises a plurality of first channels and wherein the textured surface comprises a center portion and at least one

edge, each first channel extending across the textured surface from the center portion to an area proximate to the at least one edge on the textured surface.

9. The abrasive article of claim 8 wherein the each first channel has a variable width along the length thereof.

10. The abrasive article of claim 1 wherein the backing comprises a first backing layer and a second backing layer, the first backing layer being proximate to the second surface of the polishing layer, the first and second backing layers comprising different materials.

11. The abrasive article of claim 10 wherein the first backing layer comprises a material harder than the material of the second backing layer.

12. The abrasive article of claim 11 wherein the first backing layer comprises polycarbonate and the second backing layer comprises a foamed polymeric material.

13. The abrasive article of claim 1 wherein the second channel comprises a plurality of apertures extending through the backing and generally aligned with the first channel of the polishing layer.

14. The abrasive article of claim 13 wherein the plurality of apertures are of varying dimensions.

15. The abrasive article of claim 13 wherein each of the plurality of apertures is rectangular in shape.

16. The abrasive article of claim 1 wherein the backing comprises a first backing layer, a second backing layer and a third backing layer, the first backing layer being proximate to the second surface of the textured abrasive layer and the second backing layer positioned between the first and third backing layers, the first and second backing layers comprising different materials.

17. The abrasive article of claim 16 wherein the first backing layer comprises a material harder than the material of the second backing layer.

18. The abrasive article of claim 16 wherein the first backing layer and the third backing layer comprise the same materials.

19. The abrasive article of claim 16 wherein the first and third backing layers comprise polycarbonate and the second backing layer comprises a foamed polymeric material.

20. The abrasive article of claim 16 wherein the second channel comprises a plurality of apertures extending through the first, second and third backing layers and generally aligned with the first channel of the polishing layer.

21. The abrasive article of claim 20 wherein the plurality of apertures are of varying dimensions.

22. The abrasive article of claim 20 wherein each of the plurality of apertures is rectangular in shape.